Observations of Comet b 1894 (Gale) made at the Royal Observatory, Greenwich.

(Communicated by the Astronomer Royal.)

The observations were made with the East, or Sheepshanks, equatorial, aperture 6.7 inches, by taking transits over two cross-wires at right angles to each other, and each inclined 45° to the parallel of declination. Magnifying power 55. On July 11 the observations were made with the 28-inch equatorial.

Comp. Star.	$\boldsymbol{z}$	9	9	o	g	ø	£	д	y	~	4
Apparent N.P.D.	9 13 50"3	:	:	:	46 54 52.6	•	6.61 14 94	46 41 19.6	46 38 41.7	46 38 55.0	46 36 25.3
Apparent E.A.	h m s II 19 41'43	:	:	:	11 56 24.45	:	12 4 4.27	12 4 4.54	12 5.59.12	12 5 58.70	12 7 5276
No. of Comps.	3	3	61	73	4	4	9	9	33	3	4
Log factor of Parallax.	1/1/.0	0.6255	0.6735	0.6735	0.6480	9989.0	0.6521	0.6521	0.6233	0.6344	0.6831
Corr. for Refraction.	°0.0	0.0	1.0-	+0.1	1.0+	-0.5	0.0	0.0+	0.0	1.0+	1.0+
%-*N.P.D.	- 0,40.8	9.8 I -	- 5 45.8	+ 7 20.4	+ 5 41.7	-10 io.5	- 3 31.7	5.6 <b>I</b> –	6.22 6 +	1.98 6 +	+ 7 6.4
Log factor of Parallax.	2989.6				1269.6	1204.6	9.6934	6.6694	1469.6	4969.6	1404.6
Corr. for Refraction.	00.0	0.00	00.0	0.00	00.0	00.0	0.00	00.0	00.0	00.0	00.0
Observer. &-*R.A.	m 8 +2 44'I4	-0 0.45	+1 58.48	+1 16:28	+1 24.80	-0 31.94	+2 19.88	+1 25.83	-0 38.00	-0 38.42	99.51 1+
Observer.	Ŕ	2	A.C.	:	H.	2	: :		C.D.	H.F.	A.C.
Greenwich Mean Solar Time.	1894. d h m s June 7 12 13 45	21 10 59 4	22 II 28 6	22 11 28 6	24 11 8 27	24 11 33 29	28 11 19 3	28 11 19 3	29 IO 44 43	29 10 51 23	30 11 20 25

582

Jomp. Star.	.49	٠.	¥	1	m	u	0	d	
Apparent (N.P.D.	46 32 52.4	46 31 3.7	46 27 00	46 27 12.3	:	:	:	:	
Apparent R.A.	h m s 12 11 32 14	12 13 25.12	12 20 34.44	12 20 39.78	:	9 9 2	:	:	
No. of Comps.	9	က	H	I	7	9	н	H	
Log factor of Parallax.	0.6533	0.6690	0.6514	0.6561	0.7163	6914.0	0.7291	0.7291	
Corr. for Refraction.	°.0	1.0-	0.0	1.0-	0.0	0.0	00	00	
%- * N.P.D.	- 3 58"3	- 5 46.9	+ 7 34.3	6.01 9 -	6.5 I +	+ 2 33.3	+ 2 50.0	+ 3 11.7	Notes.
Log factor of Parallax.	6.7013	9.7053	6.101.6	9.202.6	1504.6	1504.6	9.7040	9.7040	
Corr. for Refraction.	00.0 8	00.0	00.0	00.0	00.0	00. <b>0</b>	00.0	0.00	
#-*B.A.	m s -0 34'37	+1 18.63	+1 21.45	+0 52.31	+0 47.32	-0 25.16	+1 24.91	+1 7.88	
bserver.	Н.	A.C.	:	"	M.	2	2	2	
0	a s	5 23	5 3	3 56	57	97 1	2 42	42	
eenwich Mear Solar Time.	d h m s 2 10 57 10	3 11 25 23	7 10 46 3	7 to 48 56	II II 20 57	11 11 21 26	11 11 30 42	II II 30 42	
Greenwich Mean Observer, Solar Time,	1894 d July 2	33	7	7	II	II	11	II	

The observations are corrected for refraction, but not for parallax. They are also corrected for the error of inclination of the wires, and June 21.—Very difficult and doubtful observations; sky very hazy; observations impaired also by glow from great fire in Finsbury. June 24.—Comet very faint and diffused for the motion of the comet.

July 2.—Comet excessively faint; very hard to see.

June 28.—Comet exceedingly faint. June 22.—Comet faint: cloudy,

July 3.—Comet very faint and ill-defined.
July 7.—The comet was excessively faint; observations rough. The observations of R.A. are very discordant, but no mistake has been

July 11.—The comet was exceedingly diffused and faint; no shape could be detected, certainly no nucleus. Generally it could be seen only by partly averted vision detected.

The initials M., H., A.C., B., H.F., C.D., are those of Mr. Maunder, Mr. Hollis, Mr. Crommelin, Mr. Bryant, Mr. Furner and Mr. Davidson respectively.

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Royal Observatory, Greenwich: 1894 September 11.

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## Observations of Comet b 1894 (Gale).

(Communicated by Sir R. S. Ball.)

The Comet (Gale) was again observed here on the night of June 11. The place obtained from the observations is—

G.M.T. corrected for Aberrn.	Geoc.	R.A.	Geoc. Decl.		
1894. June 11:49565	h m II 29	14.77	4º1 36 3"2		
Comparison R.A. 1894.0.	Star. Decl. 1894'o.	Authority.	No. of Comparisons.		
h m s 11 33 19:40	41° 43′ 56″8	W.B. 11h 602	10		

From this observation, combined with those made here on May 4 and May 23, Mr. Graham obtained the following parabolic elements of the orbit:—

Per. Pass. 1894 April 13:53750 Greenwich M.T.

Motion direct.

The difference between the observed and calculated places on May 23 is—

The Observatory, Cambridge: 1894 June 27.